

Figure 10<sup>a</sup> is an illustration of client and service gates as messaging endpoints in a distributed computing model according to one embodiment;

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Figure 10b is an illustration a message endpoint generation according to a schema  
5 for accessing a service according to one embodiment.

Figure 11a illustrates gate creation in a distributed computing environment according to one embodiment;

10 Figure 11b illustrates gate creation and gate pairs in a distributed computing environment according to one embodiment;

Figure 12 is an illustration of possible gate components in a distributed computing environment according to one embodiment;

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Figure 13 is an illustration of proxy client for a conventional browser to participate in the distributed computing environment according to one embodiment;

Figure 14 illustrates the use of a method gate to provide a remote method  
20 invocation interface to a service in a distributed computing environment according to one embodiment;

Figure 15 is an illustration of the use of a space in a distributed computing environment according to one embodiment;

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Figure 16 illustrates advertisement structure according to one embodiment;

Figure 17 illustrates one example of advertisement state transitions that an advertisement may undergo during its lifetime according to one embodiment;

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